

### DESCRIPTIVE NOTES

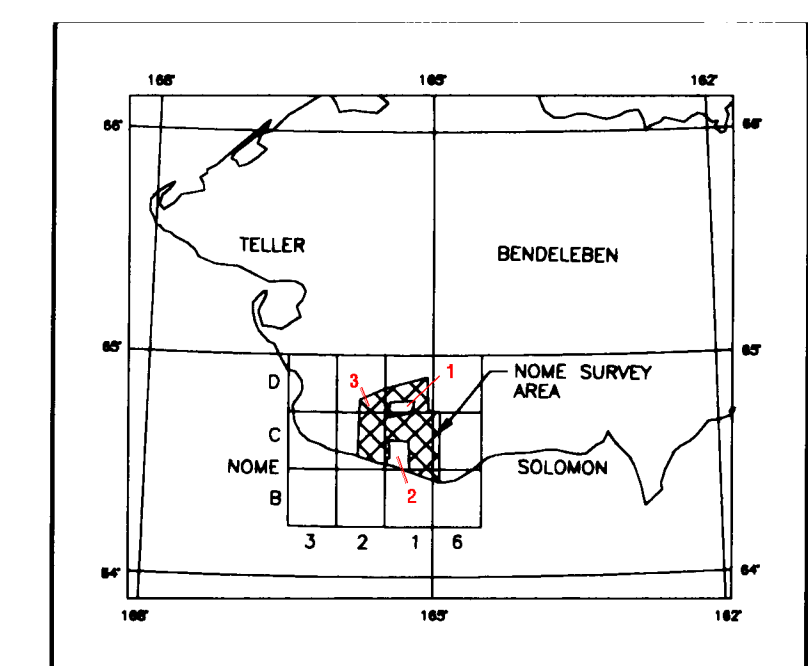
Geophysical data were acquired with a DIGHEM Electromagnetic (EM) system, a Scintrex cesium CS2 magnetometer, and a Herz VLF system installed in an AS350B-1 Squirrel helicopter. In addition, the survey recorded data from a radar altimeter, GPS navigation system, 50/60 Hz monitors, and video camera. Flights were performed at a mean terrain clearance of 200 feet along survey flight lines with a spacing of a quarter of a mile. The lines were flown perpendicular to the flight lines at intervals of approximately three miles.

A Real-Time Differential Global Positioning System (RTDGPS) was used for both navigation and flight path recovery. The helicopter position was derived every 0.5 seconds using both real-time and post-processing differential positioning to a relative accuracy of less than 10 m. Flight path positions were projected onto the Clarke 1882 UTM spheroid, 1927 North American datum using a Central Meridian (CM) of 168 degrees, a north constant of 0 and an east constant of 500,000. Positional accuracy of the presented data is better than 10 m with respect to the UTM grid.

## ELECTROMAGNETICS

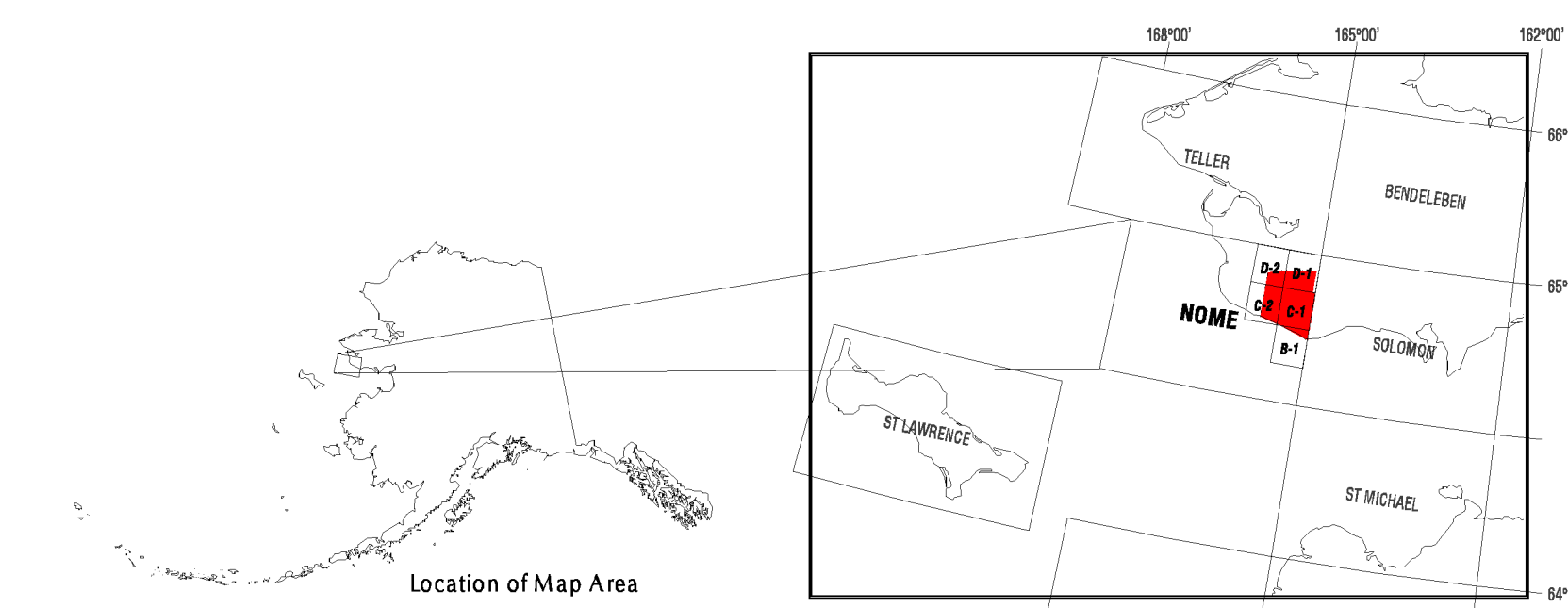
The DIGHEMV EM system measured inphase and quadrature components at five frequencies. Two vertical coaxial coil-pairs operated at 900 and 5000 Hz while three horizontal coplanar coil-pairs operated at 900, 7200, and 56,000 Hz. EM data were sampled at 0.1 second intervals. The EM system responds to bedrock conductors, conductive overburden, and cultural sources. Resistivity is generated from the inphase and quadrature component of the coplanar 7200 Hz using the pseudo-layer half space model.

## LOCATION MAP



## SURVEY HISTORY

This map has been compiled and drawn under contract between the State of Alaska, Department of Natural Resources, Division of Geological & Geophysical Surveys, and WGM, Mining and Geological Consultants, Inc. Airborne geophysical data for area 3 was acquired by Dighem Surveys & Processing, Inc. in 1993. The data for areas 1 and 2 were provided by Bering Straights Native Corporation. Other products from this survey are available from the Alaska Division of Geologic & Geophysical Surveys, 794 University Ave., Suite 200, Fairbanks, Alaska, 99709.



The State of Alaska makes no express or implied warranties (including warranties for merchantability and fitness) with respect to the character, function, or capabilities of the electronic services of products or their appropriateness for any user's purposes. In no event will the State of Alaska be liable for any incidental, indirect, special, consequential or other damages suffered by the user or any other person or entity whether from use of the electronic services or products, any failure thereof or otherwise, and in no event will the State of Alaska's liability to the Requestor or anyone else exceed the fee paid for the electronic service or product.

Division of Geological and Geophysical Surveys  
Geologic Data Modeling System

Map projection: Universal Transverse Mercator

July 15, 1994